SYSTEM ZASIALANIA
POTRZEB WŁASNYCH ZaWiSZa

ETC GROUP

OPIS SYSTEMU

Jednym z podstawowych warunków gwarancji zasilania odbiorów w elektroenergetycznej sieci
G\VWU\EXF\MQHM MHVW SUDZLGïRZD SUDFD VWDFML HO
:ïD QLH QD ZÚ]ïDFK VLHFL VSRF]\ZD RERZLÈ]HN WUDQVI
GOD SRV]F]HJöOQ\FK JUXS RGELRUFöZ :DUXQNLHP NRQL
UR]G]LHOQLF VWDMH VLÚ]DSHZQLHQLH]DVLODQLD GOD V

> DXWRPDW\NL]DEH]SLHF]HQLRZHM
> XNïDGöZ SRPRFQLF]\FK
> WHOHWUDQVPLVML
>]GDOQHJR QDG]RUX QDG PDMÈWNLHP VWDFML

)XQNFMH 7SRGWU]\PDQLD \FLD VWD
3RWU]HE :ïDVQ\FK =D:L6=D VWDQRZL
zasilania wszystkich systemów, w trakcie pracy normalnej
L DXWRQRPLF]QHM 6\VWHP]DSHZQL
SRPRFQLF]H 9$& 9 '& 9 $
9 '& 9 '&

: VNïDG 6\VWHPX =DVLODQLD 3RWU]HE :ïDVQ\FK =D:L6=D
ZFKRG]È QDVWÚSXMÈFH EORNL IXQNFMRQDOQH

> 5R]G]LHOQLFD JïöZQD SRWU]HE ZïDVQ\FK
9 $& RGPW

5R]G]LHOQLFD JïöZQD SRWU]HE ZïDVQ\FK 9 $&]DSH
zasilanie podstawowe wszystkich kluczowych odbiorów systemu,
Z W\P

> 5R]G]LHOQLF\ '&] XNïDGHP SURVWRZQLNRZ\P
> 5R]G]LHOQLF\ $& JZDUDQWRZDQH] XNïDGHP IDORZQL
> 5R]G]LHOQLF\ 9'&] VLïRZQLDPL WHOHNRPXQLNDF\MQ\P
> 2EZRGöZ]DVLODQLD QDSÚGöZ RGïÈF]QLNöZ
> 2JU]HZDQLD SRPLHV]F]Hñ VWDFML] DXWRPDW\NÈ
> 2EZRGöZ RJU]HZDQLD V]DIHN NDEORZ\FK
> 2 ZLHWOHQLD SRPLHV]F]Hñ
> 2 ZLHWOHQLD]HZQÚWU]QHJR] DXWRPDW\NÈ
> 8NïDGöZ NOLPDW\]DFML
> &KïRG]HQLD WUDQVIRUPDWRUöZ RSFMD
> 3U]HïÈF]QLND]DF]HSöZ WUDQVIRUPDWRUD
> 6\JQDOL]DFML FHQWUDOQHM RGELRUöZ GRGDWNRZ\FK

0RGXï\ UR]G]LHOQLF\
XPLHV]F]RQR Z
V]DIDFK SU]HP\VïRZ\FK
]DZLHUDMÈF\FK
VHNFMÚ L] GRSï\ZDPL RUD]
VSU]ÚJïR] DXWRPDW\NÈ 6=5

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> 5R]G]LHOQLFD SRWU]HE ZïDVQ\FK] XNïDGHP SURVWRZQLNRZ\P 9 '& F

5R]G]LHOQLFD 5'&]DSHZQLD]DVLO

> 2EZRGöZ VWHURZQLF]\FK L V\JQDOL]
> 2EZRGöZ VWHURZDQLD L EORNRZDQ
> 'GRZDQLH EDWHULL JïöZQHM
> 3U]HWZRUQLF 9 9 '&
> 2EZRGX 9 '& XNïDGX IDORZQLN 9 $& JZDUDQWRZDQH
> 2 ZLHWOHQLD DZDU\MQHJR
> 3U]HWZRUQLNöZ SRPLDURZ\FK

5R]G]LHOQLFD Z\NRQDQD] UHJXï\ MDN QDMZ\ V]HM NODV\ ]DVLODF]H '& R SUE JZDUDQWXMÈF REVïXJÚ GR RGSï\ZöZ
topologia rozdzielnicy, kontrola jej kluczowych parametrów oraz PR OLZR Ê]GDOQHJR LFK QDG]RUX SI JZDUDQWXMH Z\VRNÈ QLH]DZRGQR Ê V

> %DWHULD EDWHULH DNXPXODWRU

%DWHULD DNXPXODWRUöZ %*3:]DSH Z WUDNFLH SUDF\ DXWRQRPLF]QHM V\VWHPX

> UR]G]LHOQLF\ 9 '& EH]SR UHGQ
> UR]G]LHOQLF\ 9 '& 9 '& SR UH
> XNïDGX IDORZQLNRZHJR 9$& SR SRGWU]\PXMÈF SUDFÚ ZV]\VWNLFK N öZ VWDFML

:LHG]D R FKHPLF]Q\FK UöGïDFK HQHUJLL MHVW NOX NRPSHWHQFMÈ QDV]HM ILUP\ : RSDUFLX R QDV]H GR ZL RUD] UHIHUHQFMH NOXF]RZ\FK NOLHQWöZ SURSRQXMHP GHG\NRZDQH UR]ZLÈ]DQLD EDWHULL DNXPXODWRUöZ V '& :]DOH QR FL RG EXGRZ\ VWDFML RUD] RERZLÈ]XM procedur implementacyjnych i eksploatacyjnych proponujemy QDVWÚSXMÈFH UR]ZLÈ]DQLD RSDUWH QD SURGXNWDFK * Power

> =HZQÚWU]QH EDWHULH DNXPXODWRUöZ NODV\F]Q\FK] RJQLZDPL OXE EORNDPL 2*L 2S]6 *UR(OXE 2&60
> =HZQÚWU]QH EDWHULH DNXPXODWRUöZ 95/$
> 6]DI\ EDWHU\MQH] DNXPXODWRUDPL 95/$ NODV\ 7IURQW WHUPLQDO

,QVWDODFMH EDWHULL Z\SRVD DP\ Z RSW\PDOQH NRV]WRZR QLE]DZRGQH L WUZDïH NRQVWUXNFMH PHFKDQLF]QH L]DEH]SLHF]HQLH SU]HFLZ]ZDUFLRZH ,QWHUHVXMÈFÈ RSFMÈ EÚG]LH GOD 3DñVWZD]DVWRVRZDQLH .RQWURORHUD %DWHULL 61% NWöU\ SR]ZDOD QD SHUPDQHQWQ\ QDG]öU QDG QDSLÚFLDPL WHPSHUDWXUÈ GZöFK EDWHULL '& UHMHVWURZDÊ]GHILQLRZDQH Z QLHM VWDQ\ DODUPRZH RUD] SU]HND]\ZDÊ]JURPDG]RQH LQIRUPDFMH R SUDF\ EDWHULL GR V\VWHPöZ QDG]RUX QDG PDMÈWNLHP V

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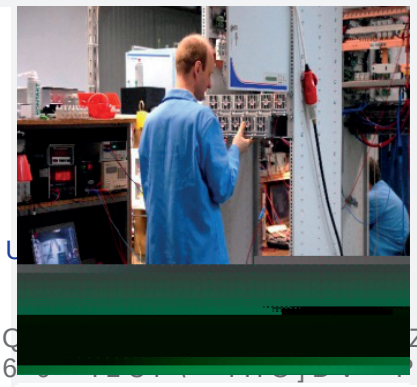
> 5R]G]LHOQLFD SRWU]HE ZïDVQ\FK] XNïDGHP IDORZQLNRZ\P RAC230

5R]G]LHOQLFD JZDUDQWRZDQHJR QDS
$&] XNïDGHP IDORZQLNRZ\P XPLHV]F]
Z VWDQGDUG]LH 5 5R]G]LHOQLFD 5$

> 8NïDGöZ (71
> 6\VWHPX VWHURZDQLD L QDG]RUX V
> 6\VWHPX *36
> 8NïDGöZ SRPLDURZ\FK HQHUJLL UR]
> 3U]HWZRUQLNöZ SRPLDURZ\FK
> 8NïDGöZ NRQWUROL GRVWÚSX L EDU

0RGXODUQD NRQVWUXNFMD UR]G]LHO
NRQILJXUDFMÚ XNïDGX IDORZQLNRZ
Z\PDJDQHM QLH]DZRGQR FL VWUXNWX
] MHGQ\P IDORZQLNLHP SR GZXVHNF\M
] ïÈF]QLNDPL VWDW\F]Q\PL L E\SDVDPI
RSFMÈ MHVW PR OLZR Ê]GDOQHJR QI
SRSU]H] NRQWUROHU V\VWHPX =D:L6=



> 5R]G]LHOQLFD SRWU]HE ZïDVQ\FK OXE SU]HWZRUQLFÈ '& '& RDC48

RSFMRQDOQLH UR]G]LHOQLFD SRWU
9 '&] SU]HWZRUQLFÈ 9 '& 5'&

5R]ZLÈ]DQLH RSDUWH MHVW QD Q ZQLDFK
WHOHNRPXQLNDF\MQ\FK NODV\ 6'& 6 R H
E\Ê]DVLODQH]DUöZQR] QDSLÚFLD
EH]SR UHGQLR] UR]G]LHOQLF\ 5'&
RUD] IXQNFMRQDOQR Ê UR]ZLÈ]DQLD
SDUDPHWU\ WHFKQLF]QH L NRV]WRZH
] Z\PDJDQLDPL KRPRORJDF\MQ\PL ,' Z
RG LOR FL SURMHNWRZDQ\FK RGSïZ
UR]G]LHOQLF\ 5'& PDV\PDOQLH $
GR 8 SU]HVWU]HQL V]DI\ 5 : RSFM
EÚGÈFH UöGïHP QDSLÚFLD 9

> .RQWURORU 6\VWHPX =DVLODQLD 3R

,QWHUHVXMÈFÈ RSFMÈ Z\SRVD HQLD 6
NRQWURORU =D:L6=D,3 .RQWURORU M
DNW\ZQ\FK HOHPHQWöZ V\VWHPX GR

> 6=5
> SURVWRZQLNL
> IDORZQLNL
> VLïRZQLH WHOHNRPXQLNDF\MQH
> 836 L SU]HWZRUQLFH
> NRQWURORU EDWHULL
> Z\ïÈF]QLNL L UR]ïÈF]QLNL UR]G]LHO

3RQDGWR NRQWURORU =D:L6=D,3 XPR
L WHPSHUDWXU\ Z NOXF]RZ\FK SXQ
NRQWURORUD MHVW SR UHGQLFWZR Z
]DVLODQLD SRWU]HE ZïDVQ\FK] SR]LF
QDG]RUX .RQWURORU SUDFXMH Z
(WKHUQHWX RUD] VLHFLDFK RSDUW
XPR OLZLDMÈF NRPXQLNDFMÚ] QD
VWDFML SURGXNFML QS (ONRPWHFK
QDMEDUG]LHM SRSXODUQ\FK Z DXW
Z\PDQ\ GDQ\FK Z W\P ,(&